

AMENDMENT UNDER 37 C.F.R. §1.116  
USSN: 09/842,634

**IN THE CLAIMS:**

**Please cancel claim 10 without prejudice or disclaimer.**

**Please enter the following amended claims:**

9. (Twice Amended) A producing method for a disc cable which travels within piping connected endlessly, the cable having discs disposed thereon in a predetermined spacing relation, the method comprising:

B<sup>2</sup> a step of forming a cover layer formed of a first synthetic resin on the surface of a metal wire, and forming a groove-like part through which the surface of the metal wire is exposed, said groove-like part not forming a part of the cover layer and being distributed in a predetermined spacing relation in a longitudinal direction of a cable, and

a step of molding a disc formed of a second synthetic resin, and causing said first synthetic resin to flow into the groove-like part to form a protrusion on the disc to fixedly mount it on the cable.

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P 11. (Amended) A producing method for ~~a disc cable which travels~~ within piping connected endlessly, the cable having discs disposed thereon in a predetermined spacing relation, the method comprising a step of forming a cover layer formed of synthetic resin on the surface of a metal wire, and forming a disc formed of synthetic resin integral with the cover layer, wherein in molding the disc, a fitting hole is formed in the disc, and one end of the cover layer is fitted in the fitting hole.

12. (Amended) A producing method for a disc cable which travels within piping connected endlessly, the cable having discs disposed thereon in a predetermined spacing relation, the method comprising:

a step of forming a disc of a first synthetic resin on the surface of a metal wire, said wire having a longitudinal dimension, to fixedly mount it on the metal wire, said disc having a radial part with opposed radial surfaces that extend orthogonal to said longitudinal dimension of said wire and boss parts, each boss part extending from a respective radial surface of said disc, and

a step of forming a cover layer formed of a second synthetic resin on the surface of the metal wire and extending to a radial surface of said disc and covering at one end thereof a boss part of the disc.

13. (Amended) A producing method for a disc cable which travels within piping connected endlessly, the cable having a metal wire core and discs disposed thereon in a predetermined spacing relation, each of said discs comprising a radially extending part having opposed radial surfaces and a boss part extending from a respective one of said radial surfaces and having an inner layer part and a flange part, the method comprising:

molding the inner layer part of the boss part of the disc and the flange part integrally, and forming a depression in the inner layer part of the boss part of the disc proximate a radial surface of said radially extending part, and

forming the cover layer formed of synthetic resin on the surface of the metal wire, covering one end thereof on the inner layer part of a boss part of the disc to form an outer layer of the boss part extending to said radial surface, and forming a protrusion corresponding to the depression on one end of the cover layer.

B<sup>5</sup> 14. (Amended) The producing method for a disc cable as recited in claim 9 wherein said groove-like part has a length of 1.0 mm to 5.0 mm.

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B<sup>6</sup> 16. (Amended) The producing method for a disc cable as recited in claim 9 wherein said groove-like part has a length approximately equal to a diameter of said wire.

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17. (Amended) The producing method for a disc cable as recited in claim 12 wherein said groove-like part has a length substantially smaller than a length of said disc, including said radial part and said boss parts.

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